

ABSTRACT OF THE DISCLOSURE

5 APPARATUS AND METHOD OF MAKING A REDUCED SENSITIVITY SPIN
 VALVE SENSOR APPARATUS IN WHICH A FLUX INJECTION
 EFFICIENCY IS REDUCED

10 Apparatus and methods for reducing the sensitivity
 of spin valve sensor read heads for magnetic tape
 applications are provided. The apparatus and methods
 compromise the large output gain derived from using state
 of the art spin valve sensors in order to reduce the flux
 capture and thus, the signal distortion in the spin valve
 sensor. In order to provide a reduced sensitivity spin
15 valve sensor, one or more of the basic sensitivity of the
 spin valve, the flux carrying capability of the free
 layer, and the flux injection efficiency of the spin
 valve head structure are modified to reduce the flux
 capture by the sensing layer.

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